University of Agronomic Sciences and Veterinary Medicine of Bucharest
Faculty of Horticulture

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Vegetation assessment methods. The case of Circus Park, Bucharest.

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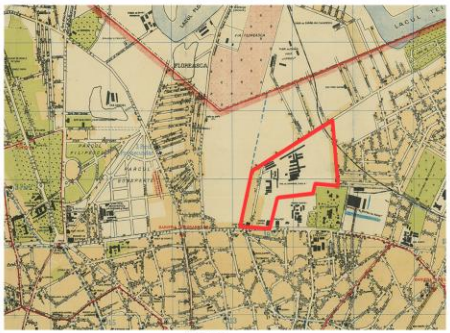
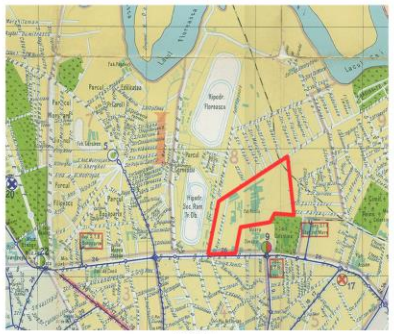
Introduction



1921



1931

https://archive.org/details/Harta

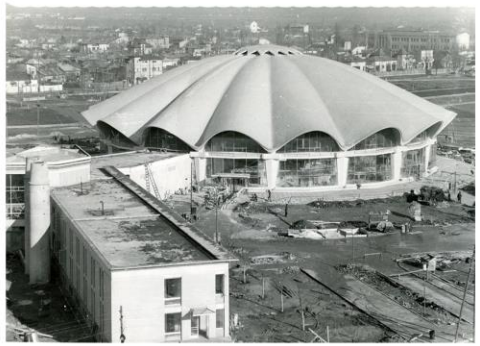
1968

2018

https://www.bing.com/maps

The Circus Park was designed in 1961, on a 26 ha surface, created by the architect Valentin Donose .

This park is also known as " Tonola Park", because it was designed in an old "hole" Tonola, created by the excavations for the brick factory Tonola.



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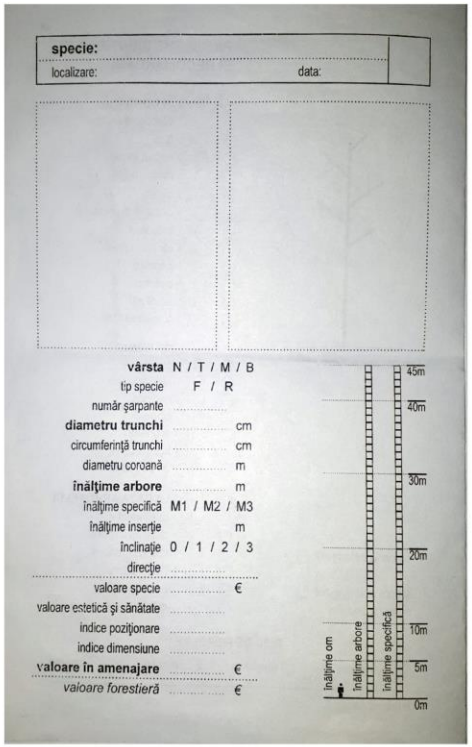
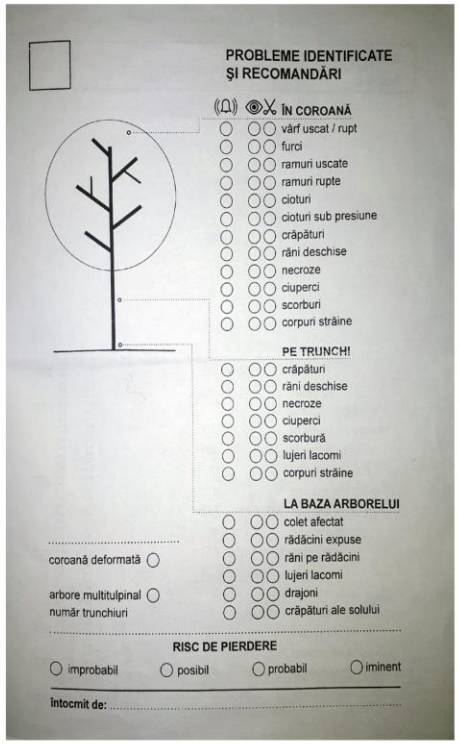
Materials and Methods

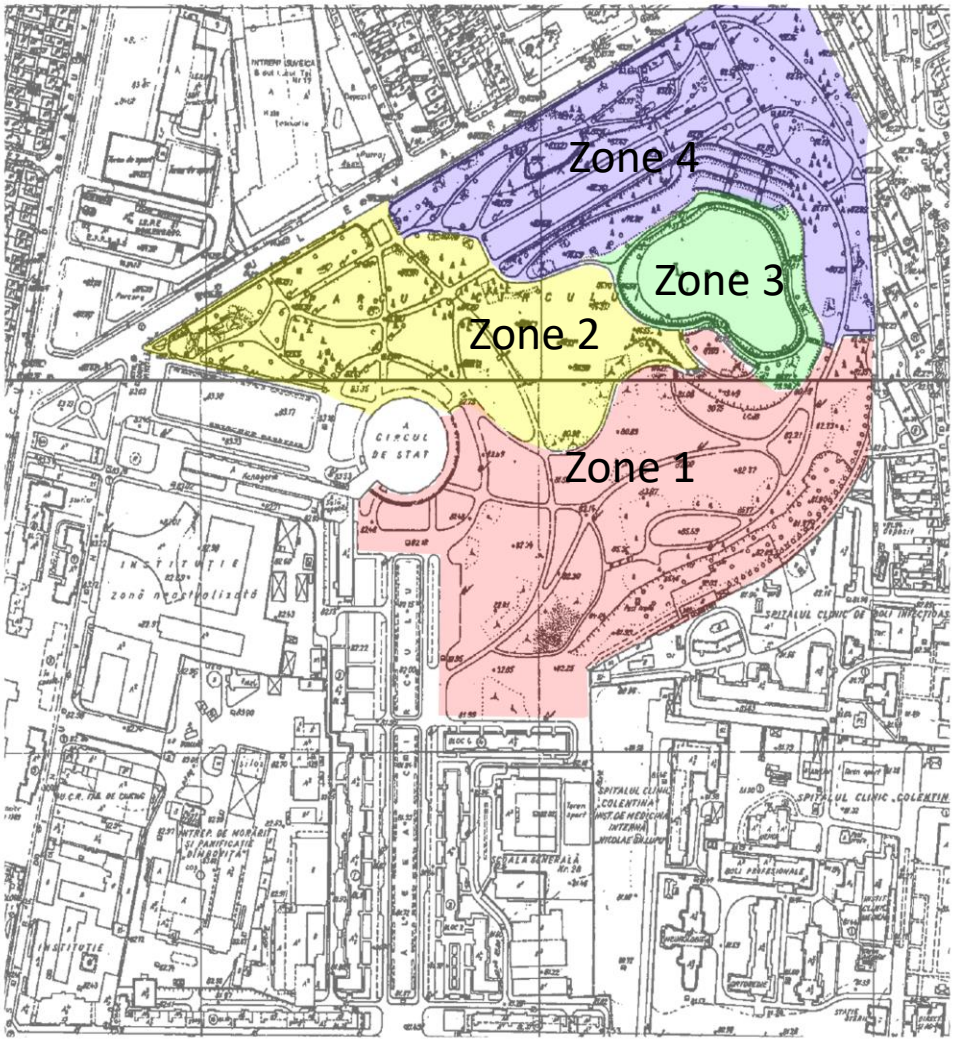
- The documentation and research methods consisted in historical photographs identification, field visits, setting up the inventory arranged by vegetation and landscape typologies, vegetation records of the valuable trees in accordance with BEVA method, the identification of the area's characteristics, the value of the trees into the landscape but also their esthetical unicity.





- Also, the method used was The Beva One *(Barème d'Evaluation de la Valeur d'un Arbre = Evaluation scale of a tree)* to identify the esthetical value of the trees regarding the landscaping but it's value in EURO also, but this method was a little simplified by eliminating the criteria which determine the monetary value of the investigated specimens.

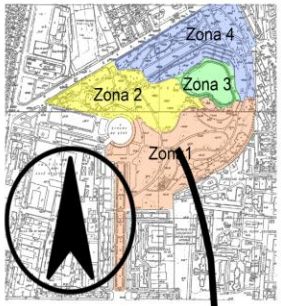
Results and discussions

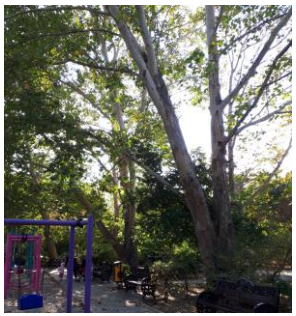


The site was divided into 4 zones, considering that each one of them differs from the others by vegetation and landscape typologies.

These areas were divided into species of trees, shrubs and perennial plants.

Presentation - Zone 1





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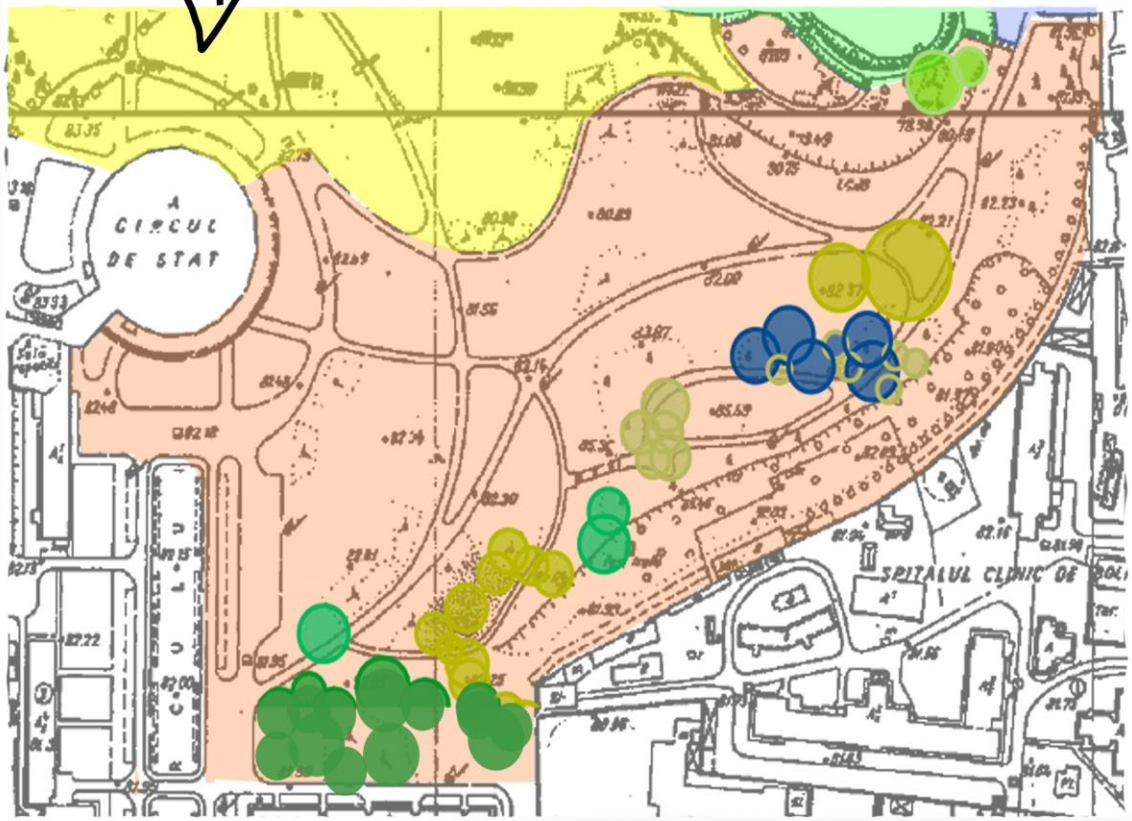


Zone 1

Trees

Aesculus hippocastanum
Platanus acerifolia
Tilia tomentosa
Pinus nigra
Tilia tomentosa

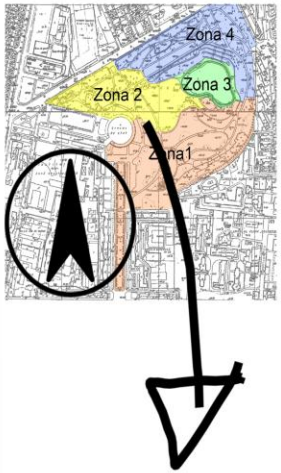
Shrubs

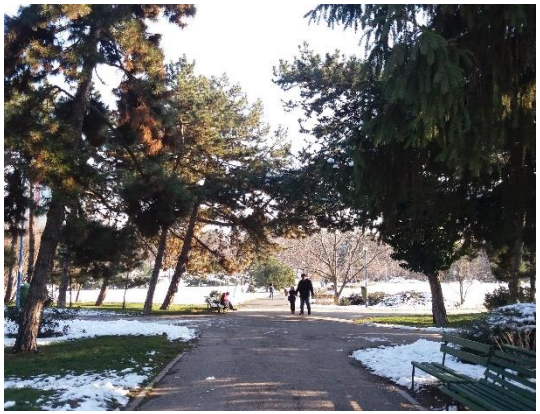
Forsythia
Philadelphus coronaries
Lonicera tatarica

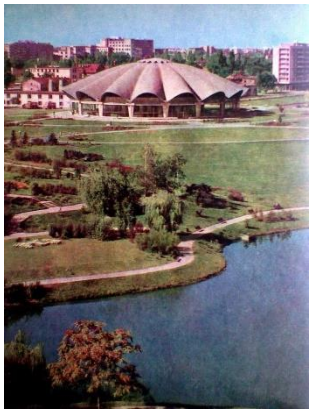
Perennial plants

Viola odorata
Lolium perenne
Hyacinthus orientalis
Tulipa sp.
Narcissus pseudonarcissus

Presentation - Zone 2







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Zone 2

Trees

Magnolia
Platanus acerifolia
Abies alba
Quercus rubra

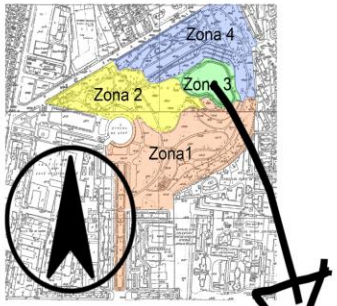
Shrubs

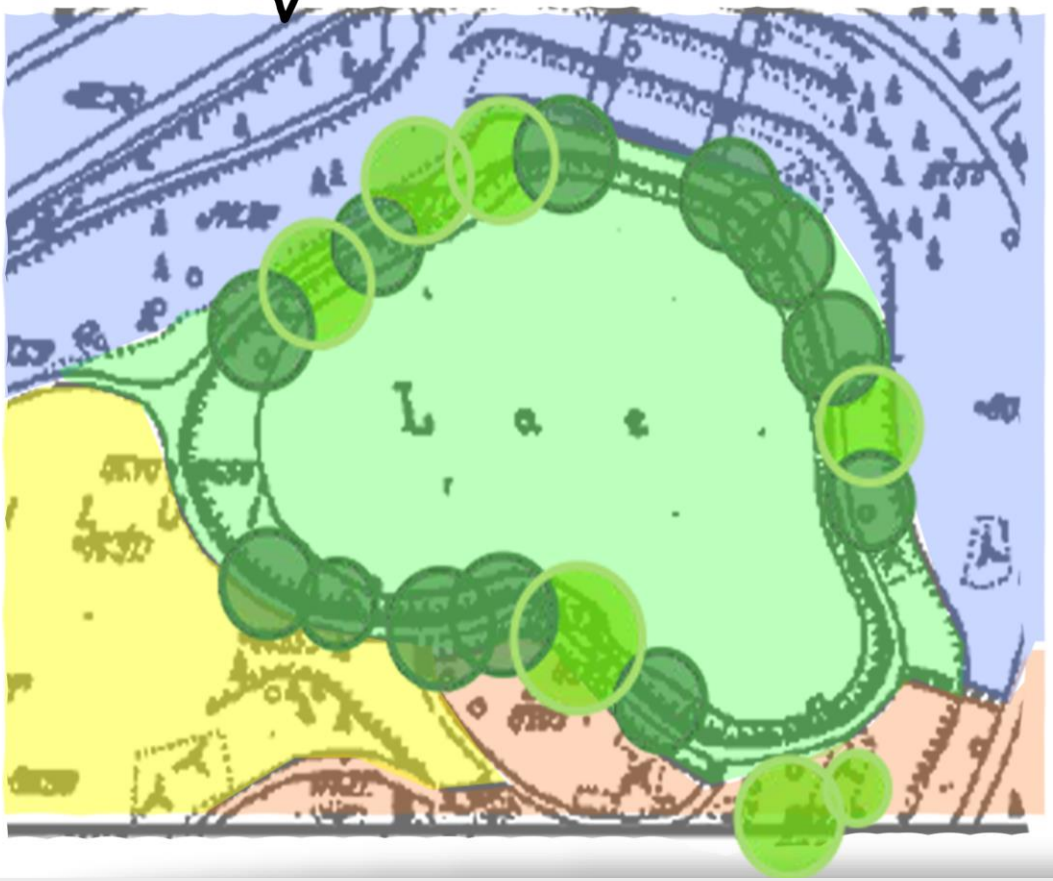
Chaenomeles japonica
Forsythia
Mahonia aquifolium

Perennial plants

Lolium perenne
Hyacinthus orientalis
Tulipa sp.
Narcissus pseudonarcissus
Yucca filamentosa
Bellis perennis
Ficaria verna

Presentation - Zone 3





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Zone 3

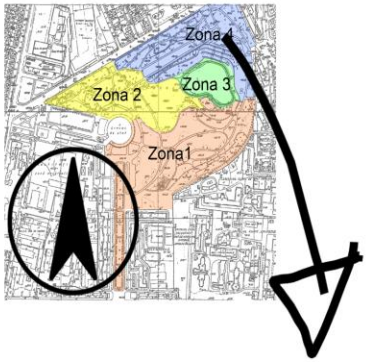
Trees

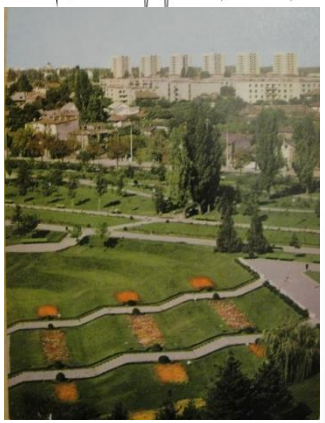
Taxodium distichum
Salix alba

Perennial plants

Nelumbo nucifera
Phragmites australis

Presentation - Zone 4





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https://www.facebook.com/groups/357628177624347/photos/

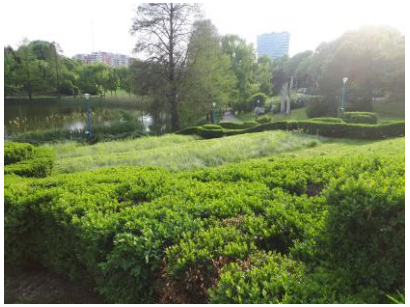
Zone 4

Trees

Quercus robur “Fastigiata”
Quercus rubra,
Pinus nigra
Tilia tomentosa

Shrubs

Chaenomeles japonica
Forsythia
Mahonia aquifolium
Buxus sempervirens
Spiraea x vanhouttei



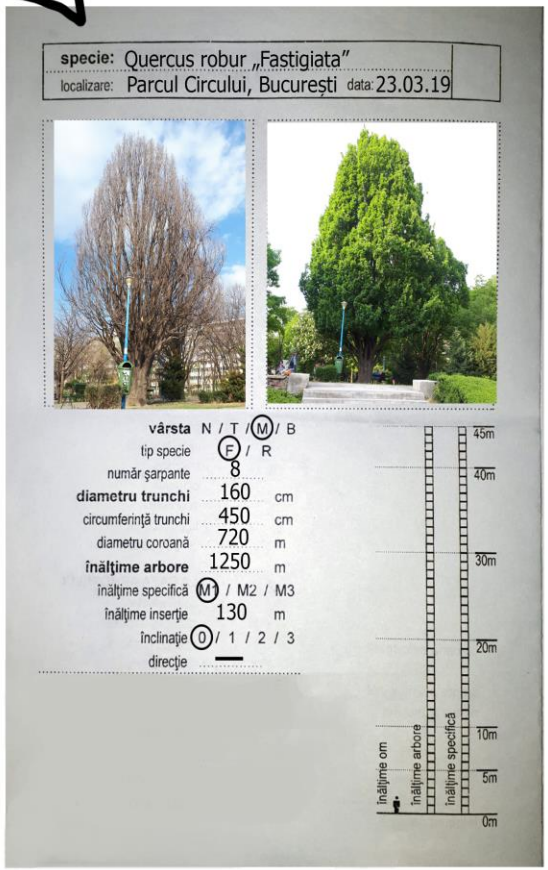
Perennial plants

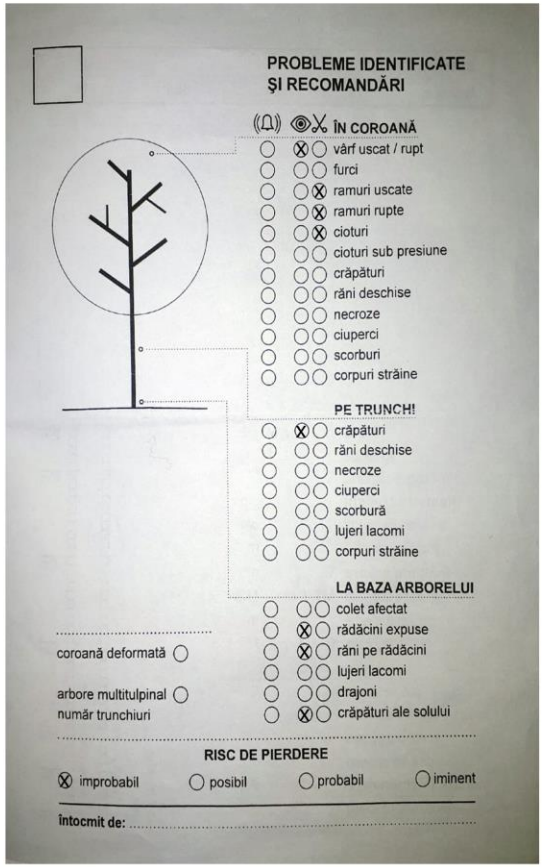
Hyacinthus orientalis
Tulipa sp.
Narcissus pseudonarcissus
Yucca filamentosa
Bellis perennis
Ornithogalum umbellatum
Ficaria verna

Simplified BEVA method

Following simplified BEVA implementation on one of the *Quercus robur „Fastigiata”* specimens, the first document concerning the most valuable trees in The Circus Park was created and validated as a method.

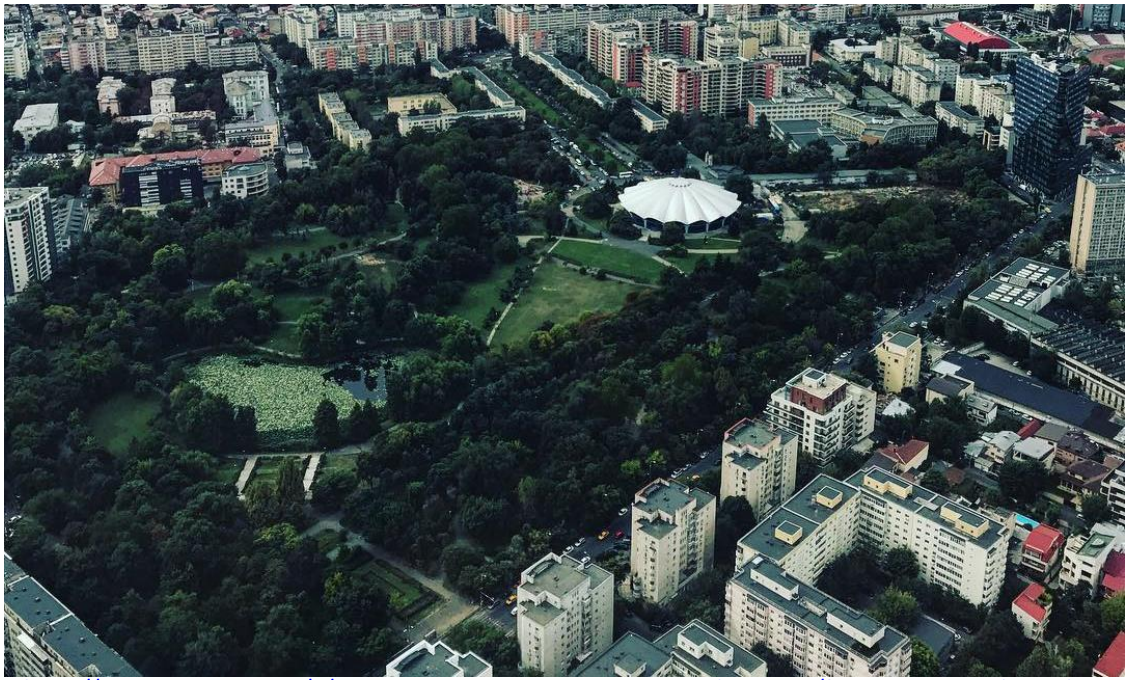
Following this document, the problems were identified and it concluded that the trees was in very good condition.





Conclusions and recommendations

Using the simplified model of the BEVA method, the complex value of the trees is confirmed, being characterized their longevity, the shape and the condition of the specimens, regarding vegetal composition of the Circus Park, these are elements that highlight the importance of including the studied sit in the list of historical monuments.



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References

PhD Thesis: Development of a quality assessment method for urban green spaces, Diana Lavinia Culescu

https://www.dianaculescu.ro/cat-valoreaza-un-arbore/ 25.03.2019

http://rpr.ro/DianaCulescu_teza_extenso.pdf 25.03.2019

http://enciclopediaromaniei.ro/wiki/Parcul_Circul_de_Stat 27.03.2019

https://www.facebook.com/groups/357628177624347/photos/ 28.03.2019